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IS 9082 (1979): Purchaser's data sheet for bursting discs and assemblies [MED 17: Chemical Engineering Plants and Related Equipment]

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(Reaffirmed 2006)

Indian Standard

PURCHASER'S DATA SHEET FOR BURSTING DISCS AND ASSEMBLIES

1. Scope — Covers the technical data to be supplied by a purchaser while placing an enquiry or order to a supplier for the purchase of bursting discs and assemblies.

2. Purchaser's Data Sheet

PURCHASER'S DATA SHEET FOR BURSTING DISCS AND ASSEMBLIES

1) Description of equipment to be protected ....

2) Required bursting pressure .... MPa

3) Normal working pressure of vessel .... MPa

4) Maximum working pressure of vessel .... MPa

5) Whether disc is subject to frequent fluctuation in pressure ....

6) How frequently is the maximum working pressure reached in the vessel ....

7) Overpressure conditions (whether overpressure will be normal or explosive) ....

8) Whether the disc is subject to vacuum in addition to pressure ....

9) Normal operating temperature:
   a) Inside disc .... °C
   b) Outside disc .... °C

10) Temperature when approaching burst pressure .... °C

11) Limits of temperature during cycle of operations .... °C

12) Whether discharge from bursting disc is directed to atmosphere, vessel or pipe line ....

13) Protection against downstream side pressure built up ....

14) Fluid in contact with disc ....

15) Whether the fluid contains suspended solids or other matter ....

16) Material of disc ....

17) Minimum size of opening necessary for relief of pressure after bursting of disc ....

18) If size of opening is not known state:
   a) Flow rate.. m^3/min
   b) Density ....

19) Whether any safety valve will be used in conjuction with bursting disc on the equipment..
   a) If so, indicate details such as set pressure and size of valve..

20) Whether any isolation valve before bursting disc is required as a special case ....

(*Continued*)

Chemical Engineering Sectional Committee, EDC 57; Basic Chemical Engineering Standards Subcommittee, EDC 57 : 1 [Ref : Doc : EDC 57 (2734)]

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MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

PURCHASER'S DATA SHEET FOR BURSTING DISCS AND ASSEMBLIES—*Contd*

21) Vaccum support (required if the pressure in the system may at any time fall below the atmospheric) ....
....

22) Relieving area acquired through vacuum support (maximum 40 percent unless an opening type support is specified) ....

23) Material of vacuum support ....

24) Type of holder ....

25) Material of holder ....

26) Dimensional specification of holder ....

Remarks

27) Special requirements ....

EXPLANATORY NOTE

The information given by a purchaser according to this data sheet will enable a manufacturer or a supplier to assess the exact requirements of the purchaser and to recommend to him the most suitable type of equipment.

International system (SI) of units has been used in the standard. The relationship of these units to other units are given below for guidance:

$$1 \text{ pascal (Pa)} = 1 \text{ Newton/square metre (N/m}^2\text{)}$$
$$= 0{\cdot}10 \text{ kgf/m}^2$$

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